

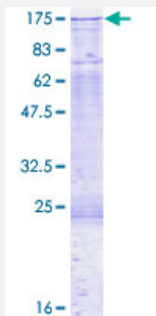
Full-Length

DNMT3A (Human) Recombinant Protein (P01)

Catalog # H00001788-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DNMT3A full-length ORF (NP_072046.2, 1 a.a. - 912 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPAMPSSGPGDTSSSAAEREEDRKDGEEQEEPRGKEERQEPSTTARKVGRPGRKRKHPPVES
GDTPKDPAVISKSPSMAQDSGASELLPNGDLEKRSEPQPEEGSPAGGQKGGAPAE GEGAAETL
PEASRAVENGCCTPKEGRGAPAEAGKEQKETNIESMKMEGSRGRLRGGLGWESSLRQRPMPR
LTFQAGDPYYISKRKRDWELARWKREAEKKAKVIAGMNAVEENQGPGESQKVVEASPPAVQQP
TDPASPTVATTPEPVGSDAGDKNATKAGDDEPEYEDGRGFGIGELVWGKLRGFSWWPGRMSW
WMTGRSRAAEGTRWVMWFGDGKFSVVCVEKLMLPLSSFCSAFHQATYNKQPMYRKAIYEV LQV
ASSRAGKLPVCHDSDES DTAKAVEVQNKPMIEWALGGFQPSGPKGLEPPEEEKNPYKEVYTD
MWVEPEAAAYAPPPPAKKPRKSTAEKPKVKEIIDERTREL VYEVQRKCRNIEDICISGSLNVT L
EHPLFVGGMCQNCKNCFLECAYQYDDDDGYQSYCTICCGGREVLMCGNNNCCRCFCVECVDLLV
GPGAAQAAIKEDPWNCYMCGHKGTYGLLRREDWPSRLQMFFANNHDQEFDPKVPYPPVPAE
KRKPIRVLSLFDGIATGLLV LKDLGIQVDRIASEVCEDSITVGMVRHQGKIMYVGDVRSVTQKH IQE
WGPFDLVIGGSPCNDLSIVNPARKGLYEGTGRLFFEFYRLLHDARPKEGDDRPFFWLFENVVAM
GVSDKRDISRFLESNPVMIDAKEVSAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIAK
FSKVRTITTRSNSIKQGKDQHFPVFMNEKEDILWCTEMERVFGFPVHYTDVSNMSRLARQRLLGR
SWSVPVIRHLFAPLKEYFACV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

128.3

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — DNMT3A

Entrez GeneID	1788
GeneBank Accession#	NM_022552.3
Protein Accession#	NP_072046.2
Gene Name	DNMT3A
Gene Alias	DNMT3A2, M.HsaIIIA
Gene Description	DNA (cytosine-5-)-methyltransferase 3 alpha
Omim ID	602769
Gene Ontology	Hyperlink
Gene Summary	CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations

DNA MTase HsalllA|DNA cytosine methyltransferase 3 alpha|DNA cytosine methyltransferase 3A 2|DNA methyltransferase HsalllA|OTTHUMP00000120005|OTTHUMP00000120006

Pathway

- [Cysteine and methionine metabolism](#)
- [Metabolic pathways](#)

Disease

- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Crohn Disease](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Spinal Dysraphism](#)
- [Stomach Neoplasms](#)